

1997 Paul Bunyan Masters
Round 5

Tossups:

1. The protagonist attends a performance of Wharfinger's The Courier's Tragedy with Metzger, the co-executor of her former lover's estate. The plot may revolve around a centuries old dispute between the Thurn and Taxis family and Tristero, or it may be a hoax concocted by Pierre Inverarity. FTP, identify this novel, whose title refers to the auction of a collection of forged stamps witnessed by Oedipa Maas, written by Thomas Pynchon.

Answer: **The Crying of Lot 49**

2. He discovered that easily crystallized compounds could pass through membranes, providing a method for separating colloidal compounds and leading to modern dialysis. The first president of the Chemical Society of London, he studied phosphorous and its oxyacids, and showed that hydrogen gas could be stored by cold palladium. FTP, identify this Scottish chemist, best known for the law stated in 1833 which states that the rate of diffusion for a gas is inversely proportional to the square root of its density.

Answer: **Thomas Graham**

3. He founded the People's Voice in 1942, the year after he was elected to the City Council of New York. During a speech at Howard University in 1966, he used the phrase "black power" for the first time, and convened the first National Conference on Black Power a year later. FTP, name this longtime chairman of the House Committee on Education and Labor, who was accused of misusing funds in 1967 and expelled from the House of Representatives.

Answer: **Adam Clayton Powell**

4. The north end of the island includes Cape Bojeador, Escarpada Point, and the city of Aparri. The Palanan and Dingalan Bays lie on the east coast, while the Polillo Islands lie in the Lamon Bay in the southeast. To the south are the Lubang Islands and Tayabas Bay, and the Calavite Passage separates it from Mindoro. FTP, identify this island, which includes the cities of Olongapo, Quezon City, and Manila.

Answer: **Luzon**

5. This disease has been mentioned in two recent movies, causing the death of Tommy in Trainspotting and a huge argument for the couple in Nine Months. An infection of the tissues of the central nervous system, spleen, liver, and other organs which is caused by organisms of the Eucoccidea order related to sporozoa, it occurs in birds, humans, and other wild and domestic animals, especially cats. For 10 points name this disease which usually results in swollen glands and a fever in adults but which can cause birth defects and death for infants.

Answer: **Taxoplasmosis**

6. When his uncle Rua died, he became joint ruler with his brother Bleda. After the sister of Valentinian III asked for his help to escape an unwanted marriage, he entered Gaul and took her for himself. FTP, name this warrior, who married Idilco in 453 and

died on his wedding night, the "scourge of God" whose defeat at Chalons ended the invasion of Europe by the Huns.

Answer: **Attila**

7. His inaugural lecture at Gottingen, "Concerning the hypotheses which underlie geometry," revolutionized mathematics by extending Gauss's work to non-Euclidian geometries. He only wrote a few papers before dying of tuberculosis at the age of 39, but among his achievements were a new theory of complex functions, the introduction of topology to functions, and a zeta function important to analysis. FTP, name this German mathematician, whose integral is defined as the limit of an infinite sum of infinitesimal elements.

Answer: **Georg Riemann**

8. The poem ends when the Spinner of the Years says "now," and consummation comes to jar two hemispheres. It begins in a solitude of the sea deep from human vanity. In between, the Immanent Will that stirs and urges everything sees the vaingloriousness of men, and prepares a Shape of Ice for the smart ship. FTP, identify this poem, written to commemorate the sinking of the Titanic by Thomas Hardy.

Answer: **The Convergence of the Twain**

9. She became queen when her father, Valdemar IV, died without leaving any male heirs. Five years later, the death of her husband, Haakon VI, gave her another crown, and when she helped a group of Swedish nobles overthrow Albert of Mecklenburg in 1388, she became queen of that nation. FTP, name this queen of Sweden, Norway, and Denmark, who crowned her infant cousin Erik of Pomerania as king of the three nations in 1397 at Kalmar, the ruler of Scandinavia until her death in 1412.

Answer: **Margrethe I** or **Margaret I**

10. According to Greek myth, he added several letters to the alphabet, in addition to inventing numbers, board games, and coinage. The son of Nauplius and Clymene (cly-MEH-nee), he drew the anger of Odysseus by putting Telemachus in front of the plow, forcing Odysseus to admit that he wasn't insane. FTP, name this Greek hero, who was stoned to death after Odysseus buried gold in his tent and forged a letter from Priam that made him appear to be a traitor.

Answer: **Palamedes**

11. Badly wounded in World War One, he became a doctor, working in Africa and America for the League of Nations before establishing a practice in Paris's Clichy district. A collaborationist, he fled to Denmark in 1944, returning to Meudon seven years later to write _Castle to Castle_, _North_, and _Rigadoon_. FTP, name this experimental novelist, born Louis-Ferdinand Destouches, who adopted his pen name after writing _Journey to the End of Night_.

Answer: **Celine** (accept **Louis-Ferdinand Destouches** on early buzz)

12. A misreading of the last chapter of his thesis _On the Orbits of Planets_ led to the popular belief that he thought he could prove, a priori, that there were exactly seven

planets. In 1816, he became professor of philosophy in Heidelberg, where he wrote his Encyclopedia of the Philosophical Sciences in Outline. FTP, name this man, who succeeded Fichte at Berlin, who studied with Holderlin and Schelling at Tübingen, and who first gained fame at Jena with The Phenomenology of Spirit.
Answer: **George Wilhelm Friedrich Hegel**

13. In 1890, he was elected to parliament from Caernarvon Boroughs, a seat he held for 55 years. After serving as President of the Board of Trade, he became Chancellor of the Exchequer in 1908, a position he held for the next seven years. FTP, name this politician, who became secretary for war in 1916, the same year that he succeeded Asquith as coalition prime minister, a post he held until 1922.
Answer: **David Lloyd George**

14. The son of a Danish sculptor, he first gained notice in the role of Lord Foppington in Vanbrugh's The Relapse, a work which was a response to his own Love's Last Shift. The author of The Careless Husband and The Lady's Last Stake, he was better known for adaptations such as The Non-Juror, his version of Tartuffe, and a revision of Richard III which was the standard version of the play until the middle of the nineteenth century. FTP, name this actor and author, a long time manager of Drury Lane whose appointment to the post of Poet Laureate in 1730 prompted Pope to satirize him in the Dunciad.
Answer: **Colley Cibber**

15. After World War II, he came to the U.S., where he spent twenty years as a professor of political science at St. Louis. Born in 1897, he became a lawyer after serving in the Austrian army during the First World War, and was elected a Christian Socialist Deputy in 1927. FTP, name this man, who became minister of justice in 1932, and served as minister of education before becoming chancellor of Austria in 1934, a position he held until 1938, when his opposition to Hitler led to his fall from power and imprisonment.
Answer: **Kurt von Schuschnigg**

16. He was strongly influenced by Mantegna, who married his sister in 1454. After his brother moved to Turkey, he became Venice's chief painter, painting portraits like that of Doge Loredano. FTP, name this artist of Lady at her Toilet and Feast of the Gods, the teacher of Giorgione and Titian.
Answer: **Giovanni Bellini**

17. Quantum theory says that it occurs because the energy produced by precession of the electron's orbital and spin angular momentum about the magnetic field is greater than the energy of coupling. When atoms are placed in a strong magnetic field, spectral lines that give the Zeeman effect in a weaker field split. FTP, identify this effect, names for the two German physicists who discovered it in 1912.
Answer: **Paschen-Back effect**

18. In 1928 he was sentenced to 20 years in the Ohio State Penitentiary for armed

robbery, where he saw a prison fire that killed 320 convicts and became the basis of his first popular story, "To What Red Hell?" In The Primitive and Pinktoes he wrote on interracial sexuality, while his Lonely Crusade deals with discrimination in California labor unions. FTP, identify this author of If He Hollers Let Him Go, who is best known for his Harlem detective novels such as The Heat's On and The Real Cool Killers.

Answer: **Chester Himes**

19. He was among the shepherds of Tekoa when his ministry took him to Bethel. He defended himself to Amaziah by saying that he was only a dresser of sycamore trees, and he threatened exile and the death by sword of King Jeroboam II. FTP, identify this prophet, the first to leave a book in his name.

Answer: **Amos**

20. A laboratory accident in 1873 led to his discovery that silver compounds could be used for histological staining. Using this technique, he showed that nerve fibers did not join together, but were separated by synapses. FTP, name this Italian scientist, who shared the Nobel Prize in 1906 for his discovery of an apparatus in cell cytoplasm that was named for him.

Answer: **Camillo Golgi**

21. The one Grieg wrote is a series of variations on a folk melody. Brahms wrote five, the first of which is a retelling of the Scottish poem "Edward." Of Chopin's four, the first two were inspired by poems of Adam Mitskevich. FTP, identify this musical form, a narrative composition for the piano.

Answer: **ballade**

22. At the end of the play, Minnie Powell is killed in an ambush as a result of her effort to protect the main character. Set in a Dublin tenement in 1920, it tells the story of a poet who is sharing a room with Seumas Shields, a pedlar, as he flees from raids by the Black and Tans. FTP, identify this two act play, which premiered in 1923 at the Abbey Theater, the first play by Sean O'Casey to appear there.

Answer: **The Shadow of a Gunman**

23. Although heavier ones contain carbon and oxygen nuclei, most consist of a core of helium nuclei surrounded by a degenerate electron gas. Typically, they have a density of 1 billion kilograms per cubic meter, and they cannot exceed a mass of about 1.4 solar masses without undergoing gravitational collapse. FTP, identify this stellar object, the final stage of evolution for stars about the size of the sun.

Answer: **white dwarfs**

24. Cities in this nation include Wa, Yendi, Oda, and Bolgatanga. The southern most point is Cape Three Points, near the city of Sekondi-Takoradi. FTP, name this country, in which the cities of Hohoe and Ho border Lake Volta, whose largest cities are Tamale, Kumasi, and Accra.

Answer: **Ghana**

25. Born John Rowlands, he went to New Orleans at the age of 15 as a cabin boy, where he was adopted by a cotton merchant whose name he took. Author of In Darkest Africa, he traced the Congo river from its source to its mouth, though he is better known for a journalistic assignment. FTP, name this explorer, who was sent by the New York Daily Herald to find the Scottish missionary David Livingstone.

Answer: **Henry Stanley**

26. He was the king of Shoa when John IV was killed in battle in 1889. As emperor, he conquered the Gallas and absorbed the Ogaden, and tried to make peace with Italy with the Treaty of Wichale. FTP, name this ruler, whose 1896 victory at the battle of Adowa over the Italians prevented a European takeover of Ethiopia.

Answer: **Menelik**

Boni:

1. Identify the English poets from quotes on a 10-5 basis.

a. 10 points: "For God's sake hold your tongue, and let me love."

5 points: "Death, be not proud, though some have called thee / Mighty and dreadful"

Answer: **John Donne**

b. 10 points: "Was it a vision, or a waking dream? Fled is that music -- Do I wake or sleep?"

5 points: "O what can ail thee, Knight at arms, / Alone and palely loitering?"

Answer: **John Keats**

c. 10 points: "All human things are subject to decay, / And when fate summons, monarchs must obey."

5 points: "Once more the godlike David was restored, / And willing nations knew their lawful lord."

Answer: **John Dryden**

2. Identify the following sixteenth century mathematicians FTP each.

a. In 1545, he published the solution to the cubic equation in his Ars Magna.

Answer: **Jerome Cardan** or **Cardano**

b. The solution to the cubic equation that Cardano published was actually the work of this Italian, whose Nova scientia dealt with projectile motion.

Answer: **Niccolo Tartaglia**

c. In 1585, he published La disme, which introduced decimal fractions. He went on to prove the laws of the inclined plane and the lever.

Answer: **Simon Stevin**

3. Identify the following figures from the reign of Holy Roman Emperor Henry IV for the stated number of points.

1. 5 points: Henry went to Canossa to ask for absolution from this Pope, who had excommunicated him.

Answer: **Gregory VII**

2. 10 points: After Gregory VII renewed Henry's excommunication, Henry deposed him and installed this Pope in 1083.

Answer: **Clement III**

3. 15 points: While Henry was in Rome deposing Gregory and installing Clement III, the German princes chose this man to be their king, aggravating Henry no end.

Answer: **Hermann of Luxemburg**

4. Identify the authors of the following adaptations of the Don Juan legend, FTP each.

1. Don Juan first appeared in literature in this Spanish playwright's The Libertine of Seville, published in 1630.

Answer: **Tirso de Molina**

2. His Don Juan or the Stone Guest, published in 1665, built on Tirso's story by introducing Don Juan's wife, Elvire.

Answer: **Moliere**

3. One of the first treatments of the Don Juan story in English was The Libertine, a 1676 work by this author of The Medal of John Bayes.

Answer: **Thomas Shadwell**

5. Identify the following concerning the election of 1868, for the stated number of points.

1. 10 points: This Indiana Radical Republican was Grant's running mate.

Answer: **Schuyler Colfax**

2. 5 points: This former governor of New York was chosen by the Democrats on the twenty-second ballot to run against Grant.

Answer: **Horatio Seymour**

3. 15 points: The Democrats decided to endorse this Congressman's "Ohio Idea" of paying off the national debt with greenbacks.

Answer: **George Pendleton**

6. Identify these nineteenth century American sculptors, FTP each.

1. Along with Horatio Greenough, this creator of Greek Slave was one of the first professional American sculptors.

Answer: **Hiram Powers**

2. He is best remembered for the statue of Armed Freedom on the Capitol Dome, though he also did Past and Present of America in the Senate and Richmond's Washington monument.

Answer: **Thomas Crawford**

3. His "groups," such as Town Pump and The Wounded Scout, were mass-produced plaster statuettes that were wildly popular after the Civil War.

Answer: **John Rogers**

7. Identify the following concerning feathers, FTP each.

1. This is the type of protein found in feathers, as well as in hair and horns. It has polypeptide chains that combine to make coils linked by disulphide bonds between cysteine amino acids.

Answer: **keratin**

2. These are feathers that are lined up in rows, making birds appear to be streamlined. They consist of central shafts with a flattened vane on each side.

Answer: **contour feathers**

3. These are tiny hairlike feathers found between contour feathers, and made up of a shaft and a few barbs.

Answer: **filoplumes**

8. Identify the "D" initialed saints, for the stated number of points.

1. 5 points: Known as "the Waterman," he was the legendary patron saint of Wales.

Answer: **David**

2. 10 points: According to legend, this first bishop of Paris carried his head to his burial place after he was beheaded.

Answer: **Denis**

3. 15 points: After Simeon the Stylite died in 459, this saint inherited his cloak and

lived on pillars outside Constantinople for the next 33 years.

Answer: **Daniel the Stylite**

9. Identify the following figures from early Japanese history FTP each.

1. This legendary first emperor took the throne in 660 B.C.

Answer: **Jimmu**

2. Around 360 A.D., this empress, ruling in the name of her dead husband, conquered Korea.

Answer: **Jingo**

3. This crown prince, who died around 621 A.D., helped establish Buddhism in Japan and issued the Constitution of 604 during the reign of his mother, Empress Suiko.

Answer: **Shotoku**

10. Answer the following questions concerning a chemical reaction, FTP each.

1. This is a reaction of aldehydes to yield carboxylic acids and alcohols, which occurs in the presence of strong bases if the aldehydes do not have alpha hydrogens.

Answer: the **Cannizzaro reaction**

2. If aldehydes have alpha hydrogens, they do not undergo the Cannizzaro reaction. Instead, this reaction takes place, producing a hydroxy-aldehyde, or a compound containing alcohol and aldehyde groups on neighboring carbons.

Answer: **aldol reaction**

3. The Cannizzaro reaction is an example of this kind of chemical reaction, in which the same compound is reduced and oxidized at the same time.

Answer: **disproportionation**

11. Identify these French thinkers of the eighteenth century FTP each.

1. His pioneering works of cultural history include 1751's The century of Louis XIV and 1756's Essay on Moeurs.

Answer: **Voltaire** or **Francois-Marie Arouet**

2. Although he died in 1734, his Essay on the general nature of commerce was not published until 1755. It would have enormous influence on the physiocrats.

Answer: **Richard Cantillon**

3. In 1795, the year after his death, his History of the Progress of the Human Spirit was published, a work which described the perfectability of mankind and influenced Comte and the positivists.

Answer: **Marie-Jean Condorcet**

12. Identify the Canterbury Tales on a 10-5 basis.

1. 10 points: After the Host says that he wishes his wife were more like the Prudence of the tale of Melibee, he asks this traveler to tell a merry tale.

5 points: His tale contains 17 tragic accounts of the lives of such figures as Lucifer, Heracles, Julius Caesar, and Zenobia.

Answer: **the Monk's tale**

2. 10 points: After the Host and the Knight agree that the Monk's Tale is too melancholy, they ask this traveller to tell a happier tale.

5 points: His tale concerns Pertelote and Chauntecleer.

Answer: **the Nun's Priest 's tale**

3. 10 points: Although the Host had asked the Monk to tell a tale to follow the Knight's Tale, this drunken character stops him and proceeds to tell his own tale.

5 points: His tale describes how Nicholas makes John believe that a flood is coming so that he can sleep with John's wife.

Answer: **the Miller 's tale**

1 3. Answer the following questions about an island FTP each.

1. Cities on this island include Bastia, Ajaccio, and Rogliano, and its highest point is Monte Cinto.

Answer: **Corsica**

2. This strait separates Corsica from Sardinia.

Answer: **Strait of Bonifacio**

3. This sea to the north of Corsica lies between it and France.

Answer: **the Ligurian sea**

1 4. Identify the following parts of the Earth's atmosphere FTP each.

1. This layer of the atmosphere, between 150 and 1000 kilometers, has the highest concentration of free electrons, making it the best for radio transmission.

Answer: **F** or **Appleton layer**

2. The E layer of the atmosphere, which reflects medium-frequency waves, is named for these two scientists, who independently predicted its existence.

Answer: **the Heaviside-Kennelly layer**

3. This lowest level of the atmosphere varies in thickness from about 7 kilometers near the poles to 28 at the equator.

Answer: **troposphere**

1 5. Identify the following plays by Jean-Paul Sartre, for the stated number of points.

1. 5 points: This work, written during the Nazi occupation, is an adaptation of Aeschylus which focuses on Orestes's murder of Aegistheus.

Answer: **The Flies** or **Les Mouches**

2. 10 points: In this play, Fred, a senator's son, gets Lizzie to help him frame an innocent black man in order to protect his cousin Thomas.

Answer: **The Respectful Prostitute** or **La Putain respectueuse**

3. 15 points: This 1959 work deals with an ex-Nazi who is disturbed by considering how history will view his actions.

Answer: **The Condemned of Altona** or **Les Sequestres d'Altona**

1 6. Identify the following people involved in Roosevelt's court packing scheme, for the stated number of points.

1. 5 points: He was chief justice when Roosevelt proposed his plan.

Answer: **Charles Evans Hughes**

2. 10 points: The opposition to the plan was led by this senator from Montana, who read the Judiciary Committee a personal letter from Chief Justice Hughes which stated that the Supreme Court was completely caught up with its work and didn't need any help.

Answer: **Burton K. Wheeler**

3. 15 points: The need for changing the court lessened when this justice, one of the main opponents of the New Deal, announced his retirement on May 18, 1937.

Answer: **Willis Van Devanter**

17. Identify the following musical compositions FTP each.

1. This 1801 oratorio was written by Joseph Haydn, based on a poem written by James Thomson.

Answer: **The Seasons**

2. This is the nickname for the first symphony written by Vaughan Williams, with a text of poems by Whitman.

Answer: **A Sea Symphony**

3. This Kurt Weill and Bertold Brecht ballet with songs premiered in Paris in 1933.

Answer: **The Seven Deadly Sins**

18. Name the figures from religious studies FTP each.

1. Called the "Father of Comparative Religion," this German wrote such works as Comparative Mythology and Introduction to the Science of Religion.

Answer: **Friedrich Max Muller**

2. This American analyzed the practical effects of religion in The Varieties of Religious Experience.

Answer: **William James**

3. This English writer, author of Lectures on the Religion of the Semites, emphasized the role of social custom and practical action in religion.

Answer: **William Robertson Smith**

19. Identify the twentieth century novelists from works on a 10-5 basis.

1. 10 points: Life is Elsewhere and Slowness

5 points: The Unbearable Lightness of Being

Answer: **Milan Kundera**

2. 10 points: Mr. Palomar and Difficult Loves

5 points: If On A Winter's Night A Traveller

Answer: **Italo Calvino**

3. 10 points: The Guiltless and The Death of Virgil

5 points: The Sleepwalkers

Answer: **Hermann Broch**

20. Identify the following figures from the Persian Wars FTP each.

1. This son of Pisistratus led 30,000 Persians to Marathon, where they were defeated by Miltiades.

Answer: **Hippias**

2. This traitor betrayed Leonidas at the defense of Thermopylae.

Answer: **Ephialtes**

3. After the Persians were defeated at Salamis, Xerxes gave this man command of the armies.

Answer: **Mardonius**

21. Identify the following concerning a mathematical concept, for the stated number of points.

1. 10 points: It is defined as the scalar product of the gradient operator with a vector.

Answer: **divergence** or **div**

2. 5 points: The divergence theorem, which states the relation between a vector's total flux out of a surface surrounding a volume to the vector in the volume, is named for this German mathematician.

Answer: **Karl Gauss**

3. 15 points: Although the divergence theorem is commonly known as Gauss's theorem, it is also named for this Russian, who stated it in 1831.

Answer: **Michael Ostrogradsky**

22. FTP each, identify the cities that the following works of Rodin were created for.

1. Rodin started out as a mason, and in 1871 he did his first notable work designing figures for the new Stock Exchange in this city.

Answer: **Brussels**

2. The town council of this city refused to erect his statue of the burghers there according to his design.

Answer: **Calais**

3. Rodin's only equestrian statue, _General Lynch_, was destroyed by a revolution in this South American city, which currently houses a bronze of the model.

Answer: **Santiago**

23. Answer the following questions concerning a certain scientist FTP each.

1. At the age of 27, he became an undersecretary of state in the British Colonial Office. Later, he was knighted by George III, became minister of war, and in 1801 appointed Davy to the Royal Institution, which he helped to create.

Answer: **Count Rumford** or **Benjamin Thompson**

2. In 1805, Count Rumford married this famous widow in Paris.

Answer: **Marie Lavoisier**

3. By experimenting on cannon boring, Rumford showed that this fluid, which heat was supposed to consist of, would have to be weightless, and thus concluded that it did not exist.

Answer: **caloric**

24. Answer the following questions about Antarctic geography FTP each.

1. Berkner Island lies in this sea, which touches the Filchner Ice Shelf and the Ronne Ice Shelf.

Answer: **Weddell Sea**

2. The Belgick, Queen Fabiola, and Sor Rondane Mountains lie in this land, named for a queen.

Answer: **Queen Maud Land**

3. The South Magnetic Pole lies off the coast of Antarctica near this Iceberg Tongue.

Answer: **the Dibble Iceberg Tongue**

25. Identify the following concerning a certain battle, for the stated number of points.

1. 10 points: Thanks to incompetence on the part of the attackers, General Totleben was able to build up the city's defenses, and Admiral Nakhimov was able to defend this key naval base for over a year.

Answer: **Sevastopol**

2. 5 points: Identify either of the years of the siege of Sevastopol.

Answer: **1854** or **1855**

3. 15 points: This Russian surgeon was in charge of the Sevastopol medical service, and was regarded as the Russian Florence Nightingale.

Answer: **Nikolai Pirogov**